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## NOV 2 7 2002

### TECH CENTER 1600/2900

#27 1632
11/21/02

1600

RAW SEQUENCE LISTING                    DATE: 11/21/2002
PATENT APPLICATION:  US/09/435,471B     TIME: 09:50:04

Input Set : A:\USF-T135.ST25.txt
Output Set: N:\CRF4\11212002\I435471B.raw

```
 3 <110> APPLICANT: Cooper, Denise R.
 4        Patel, Niketa A.
 6 <120> TITLE OF INVENTION: Glucose-Regulated mRNA Instability Element
 8 <130> FILE REFERENCE: USF-T135
10 <140> CURRENT APPLICATION NUMBER: US 09/435,471B
11 <141> CURRENT FILING DATE: 1999-11-08
13 <160> NUMBER OF SEQ ID NOS: 13
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 7
19 <212> TYPE: PRT
20 <213> ORGANISM: Homo sapiens
22 <220> FEATURE:
23 <221> NAME/KEY: MISC_FEATURE
24 <222> LOCATION: (1)..(7)
25 <223> OTHER INFORMATION: Tyrosine phosphatase conserved active-site motif
28 <220> FEATURE:
29 <221> NAME/KEY: MISC_FEATURE
30 <222> LOCATION: (2)..(6)
31 <223> OTHER INFORMATION: Xaa = any amino acid residue
34 <400> SEQUENCE: 1
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ENTERED

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W--> 36 Cys Xaa Xaa Xaa Xaa Xaa Arg
     37 1               5
     40 <210> SEQ ID NO: 2
     41 <211> LENGTH: 11
     42 <212> TYPE: PRT
     43 <213> ORGANISM: Homo sapiens
     45 <220> FEATURE:
     46 <221> NAME/KEY: MISC_FEATURE
     47 <222> LOCATION: (1)..(11)
     48 <223> OTHER INFORMATION: Tyrosine phosphatase signature sequence motif
     51 <220> FEATURE:
     52 <221> NAME/KEY: MISC_FEATURE
     53 <222> LOCATION: (1)..(1)
     54 <223> OTHER INFORMATION: Xaa = Ile or Val
     57 <220> FEATURE:
     58 <221> NAME/KEY: MISC_FEATURE
     59 <222> LOCATION: (4)..(4)
     60 <223> OTHER INFORMATION: Xaa = any amino acid residue
     63 <220> FEATURE:
     64 <221> NAME/KEY: MISC_FEATURE
     65 <222> LOCATION: (7)..(7)
     66 <223> OTHER INFORMATION: Xaa = any amino acid residue
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RAW SEQUENCE LISTING          DATE: 11/21/2002
PATENT APPLICATION:  US/09/435,471B      TIME: 09:50:04

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     69 <220> FEATURE:
     70 <221> NAME/KEY: MISC_FEATURE
     71 <222> LOCATION: (10)..(10)
     72 <223> OTHER INFORMATION: Xaa = Ser or Thr
     75 <400> SEQUENCE: 2
W--> 77 Xaa His Cys Xaa Ala Gly Xaa Gly Arg Xaa Gly
     78 1               5                 10
     81 <210> SEQ ID NO: 3
     82 <211> LENGTH: 9
     83 <212> TYPE: PRT
     84 <213> ORGANISM: Homo sapiens
     86 <220> FEATURE:
     87 <221> NAME/KEY: MISC_FEATURE
     88 <222> LOCATION: (1)..(9)
     89 <223> OTHER INFORMATION: Dual-specificity phosphatase signature sequence motif
     92 <220> FEATURE:
     93 <221> NAME/KEY: MISC_FEATURE
     94 <222> LOCATION: (3)..(4)
     95 <223> OTHER INFORMATION: Xaa = any amino acid residue
     98 <220> FEATURE:
     99 <221> NAME/KEY: MISC_FEATURE
    100 <222> LOCATION: (6)..(7)
    101 <223> OTHER INFORMATION: Xaa = any amino acid residue
    104 <220> FEATURE:
    105 <221> NAME/KEY: MISC_FEATURE
    106 <222> LOCATION: (9)..(9)
    107 <223> OTHER INFORMATION: Xaa = Ser or Thr
    110 <400> SEQUENCE: 3
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    113 1               5
    116 <210> SEQ ID NO: 4
    117 <211> LENGTH: 33
    118 <212> TYPE: DNA
    119 <213> ORGANISM: Artificial Sequence
    121 <220> FEATURE:
    122 <223> OTHER INFORMATION: PKC-Beta-I and PKC-Beta-II upstream sense primer
    124 <400> SEQUENCE: 4
    125 cgtatatgcg gccgcgttgt gggcctgaag ggg                         33
    128 <210> SEQ ID NO: 5
    129 <211> LENGTH: 33
    130 <212> TYPE: DNA
    131 <213> ORGANISM: Artificial Sequence
    133 <220> FEATURE:
    134 <223> OTHER INFORMATION: PKC-Beta-I downstream antisense primer
    136 <400> SEQUENCE: 5
    137 gcattctagt cgacaagagt ttgtcagtgg gag                         33
    140 <210> SEQ ID NO: 6
    141 <211> LENGTH: 21
    142 <212> TYPE: DNA
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**RAW SEQUENCE LISTING**
PATENT APPLICATION: **US/09/435,471B**

DATE: 11/21/2002
TIME: 09:50:04

Input Set : **A:\USF-T135.ST25.txt**
Output Set: **N:\CRF4\11212002\I435471B.raw**

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143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Beta-globin sense primer
148 <400> SEQUENCE: 6
149 gcatctgtcc agtgaggaga a                                          21
152 <210> SEQ ID NO: 7
153 <211> LENGTH: 21
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Beta-globin antisense primer
160 <400> SEQUENCE: 7
161 aaccagcacg ttgcccagga g                                          21
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 351
166 <212> TYPE: DNA
167 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 8
170 ttttaaacca aaagcttttt gggcgaaacg ctgaaacttc gaccggtttt tcacccgcca   60
172 tccaccagtc ctaacacctc cgaccaggaa gtcatcagga atattgacca atcagaattc  120
174 gaaggatttc ctttgttaac tctgaatttt taaaacccga agtcaagagc tagtagatct  180
176 gtagacctcc gtccttcatt tctgtcattc aagctcacag ctatcatgag agacaagcga  240
178 gacacctcca acttcgacaa aagttcacca ggcagcctgt ggaactgact cccactgaca  300
180 aactctgtcg actagaatgc cctgaattct gcagatatcc atcacactgc g           351
183 <210> SEQ ID NO: 9
184 <211> LENGTH: 39
185 <212> TYPE: DNA
186 <213> ORGANISM: Homo sapiens
188 <400> SEQUENCE: 9
189 taactctgaa tttttaaaac ccgaagtcaa gagctagta                         39
192 <210> SEQ ID NO: 10
193 <211> LENGTH: 300
194 <212> TYPE: RNA
195 <213> ORGANISM: Homo sapiens
197 <400> SEQUENCE: 10
198 uuuuaaacca aaagcuuuuu gggcgaaacg cugaaacuuc gaccgguuuu ucacccgcca   60
200 uccaccaguc cuaacaccuc cgaccaggaa gucaucagga auauugacca aucagaauuc  120
202 gaaggauuuc cuuuguuaac ucugaauuuu uaaaacccga agucaagagc uaguagaucu  180
204 guagaccucc guccuucauu ucugucauuc aagcucacag cuaucaugag agacaagcga  240
206 gacaccucca acuucgacaa aaguucacca ggcagccugu ggaacugacu cccacugaca  300
209 <210> SEQ ID NO: 11
210 <211> LENGTH: 175
211 <212> TYPE: RNA
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 11
215 uuuuaaacca aaagcuuuuu gggcgaaacg cugaaacuuc gaccgguuuu ucacccgcca   60
217 uccaccaguc cuaacaccuc cgaccaggaa gucaucagga auauugacca aucagaauuc  120
219 gaaggauuuc cuuuguuaac ucugaauuuu uaaaacccga agucaagagc uagua        175
222 <210> SEQ ID NO: 12
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223 <211> LENGTH: 137
224 <212> TYPE: RNA
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 12
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230 uccaccaguc cuaacaccuc cgaccaggaa gucaucagga auauugacca aucagaauuc     120
232 gaaggauuuc cuuuguu                                                     137
235 <210> SEQ ID NO: 13
236 <211> LENGTH: 25
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <220> FEATURE:
241 <221> NAME/KEY: MISC_FEATURE
242 <222> LOCATION: (1)..(25)
243 <223> OTHER INFORMATION: Protein kinase ATP-binding motif
246 <220> FEATURE:
247 <221> NAME/KEY: MISC_FEATURE
248 <222> LOCATION: (1)..(1)
249 <223> OTHER INFORMATION: Xaa = any amino acid residue
252 <220> FEATURE:
253 <221> NAME/KEY: MISC_FEATURE
254 <222> LOCATION: (3)..(3)
255 <223> OTHER INFORMATION: Xaa = any amino acid residue
258 <220> FEATURE:
259 <221> NAME/KEY: MISC_FEATURE
260 <222> LOCATION: (5)..(6)
261 <223> OTHER INFORMATION: Xaa = any amino acid residue
264 <220> FEATURE:
265 <221> NAME/KEY: MISC_FEATURE
266 <222> LOCATION: (8)..(25)
267 <223> OTHER INFORMATION: Xaa = any amino acid residue
270 <400> SEQUENCE: 13
W--> 272 Xaa Gly Xaa Gly Xaa Xaa Gly Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     273 1               5                   10                  15
W--> 276 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Xaa
     277               20                  25
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RAW SEQUENCE LISTING ERROR SUMMARY        DATE: 11/21/2002
PATENT APPLICATION:   US/09/435,471B        TIME: 09:50:05

Input Set  : A:\USF-T135.ST25.txt
Output Set: N:\CRF4\11212002\I435471B.raw

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4,5,6
Seq#:2; Xaa Pos. 1,4,7,10
Seq#:3; Xaa Pos. 3,4,6,7,9
Seq#:13; Xaa Pos. 1,3,5,6,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25